

Robert Cutler
UST Program Coordinator
P.O. Box 47600
Olympia, WA. 98504-7600

March 1, 1993

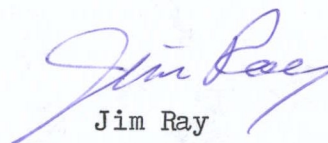
Dear Sir;

Your letter of Feb.9.1993 requests a written plan of remediation work at the Coulee Express Mini-Mart site in Coulee Dam, WA. I outlined to you on the phone, that same day, our then current plan of on-site Bio-remediation. I began to implement that plan on Feb. 11, 1993 and was stopped by the Mayor of Grand Coulee Dam. He said the city attorney informed him that city by-laws prevent us from "surface farming" the contaminated dirt on-site. I appealed to the city council at a meeting that same evening, and was given 2 weeks to organize other means of treatment or disposal.

Attached is a proposal by Blue Ridge Associates, Inc. to remediate the site. The current Coulee Dam city council position appears to force us into treating the excavated soil via soil venting after replacing it in the same excavation. Three delineation wells will attempt to outline the release plume and serve as soil vent wells also.

The current cold weather has prevented the sampling of the excavated soil but that will be started soon. Ground water samples were taken and analyzed from 3 nearby Bureau of Reclamation monitor wells and showed negative results, see attached.

Sincerely,



Jim Ray

Ray- Tozzer Partnership

Two attachments

RECEIVED

MAR 04 1993

EPA - WOO



3038541

EPA - REGION 10
RECEIVED

Harold
MAR 08 1993

WATER DIVISION
DRINKING WATER/GROUND WATER

Blue Ridge Associates, Inc.

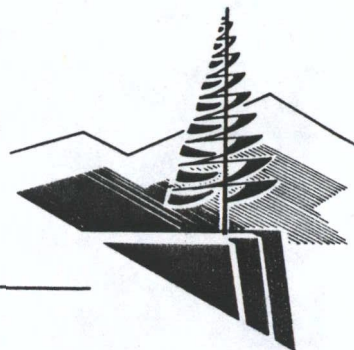
Geotechnical/Environmental Services

Jackie E. Stephens, President / Geologist
North 9 Post, Suite 250 - Spokane, WA 99201

Phone: (509) 838-8120

Fax: (509) 456-5956

Mobile: (509) 994-8171



February 19, 1993

Mr. Jimmy D. Ray
730 East Washington, #112
Sequim, Washington 98282

Re: Coulee Dam, Washington: Soil Sampling, Vapor Extraction System Installed in Present Pit, Drilling to Define Gasoline Contaminated Plume

Dear Jimmy:

Thank you for allowing Blue Ridge Associates, Inc. the opportunity to sample the 600 yards of contaminated soils which are presently stockpiled at the Coulee Express Mini-Mart, at Coulee Dam, Washington (see attached work proposal). I am also pleased to submit two additional work proposals for your review.

- 1) Installation of "vapor extraction system" to remediate 600 yards of excavated soils.
- 2) Drilling and completion of three wells to be used to define contamination plume and to set vapor extraction wells, as requested by Robert Cutler of the EPA.

Should you have any questions about these proposals, please feel free to give me a call.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Jackie E. Stephens', is written over a horizontal line.

Jackie E. Stephens
President/Geologist

Enc. as noted above

JES:mk

Blue Ridge Associates, Inc.

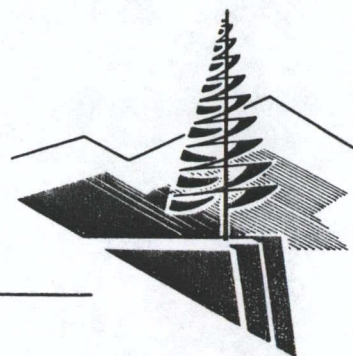
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February 18, 1993

Mr. Jimmy D. Ray
730 E. Washington, #112
Sequim, WA 98282

Attn: Jimmy D. Ray and Larry Tozer (Owners)

Re: **Proposal for Soil Sampling at Coulee Express Mini-Mart, Coulee Dam, Washington.**

Dear Jimmy and Larry:

In response to your request, Blue Ridge Associates, Inc. (Blue Ridge), is pleased to present a proposal for soil sampling of the spoils piles at the above referenced site.

A cost estimate for Blue Ridge professional services to provide the following scope of work is as follows:

Seven soil samples will be taken from the 600+ yards of contaminated soils located on the subject-property. The samples will be taken approximately two feet below the surface by hand tools and will be composited and analyzed for TPH-G and BTEX.

Cost of sampling is as follows:

1)	On-site investigation	8 hrs @ \$65/hr	\$520.
2)	Laboratory analysis	TPH-G & BTEX	\$120.
	Total:		<u>\$640.</u>

Any work beyond what has been outlined above would have to be authorized by you as our client and could be provided by Blue Ridge Associates, Inc., at \$75/hour. Should that situation arise, Blue Ridge would be pleased to provide a new or extended agreement to work. Because of the potential for liability in connection with the performance of the services hereunder, Blue Ridge is unwilling to engage in said services without limiting its liability as set forth hereinafter. Blue Ridge's liability under this agreement, whether in contract or in tort, is limited to the fee that will be earned for this sampling program.

Blue Ridge Associates, Inc.

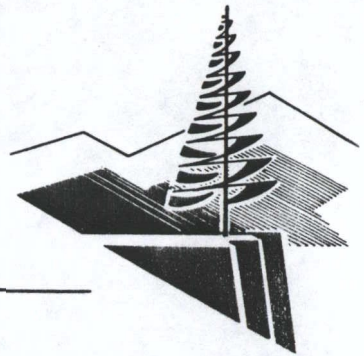
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February 18, 1993

Mr. Jimmy D. Ray
730 E. Washington, #112
Sequim, WA 98282

Attn: Jimmy D. Ray and Larry Tozer (Owners)

Re: **Proposal for installation of the 10 slot piping "vapor extraction system" at Coulee Express Mini-Mart, Coulee Dam, Washington.**

Dear Jimmy and Larry:

In response to your request, Blue Ridge Associates, Inc. (Blue Ridge), is pleased to present a proposal for construction of a vapor extraction system at the above referenced site.

A cost estimate for Blue Ridge professional services to provide the following scope of work is as follows:

Slotted 4" PVC piping will be placed in the excavation at the above referenced site at three different levels. The intent of these activities is to allow volatiles to be drawn through the piping system from the surrounding soils, and vented 12' above the surface.

Cost of construction is as follows:

The estimated cost for the construction activities are as follows:

1)	On-site work by Blue Ridge	12 hrs @ \$65/hr	\$780.
2)	4" 10 slot piping at cost plus 10% (added to billing)		\$0.
	Total:		<u>\$780.</u>

Any work beyond what has been outlined above would have to be authorized by you as our client and could be provided by Blue Ridge Associates, Inc., at \$75/hour. Should that situation arise, Blue Ridge would be pleased to provide a new or extended agreement to work.

Blue Ridge Associates, Inc.

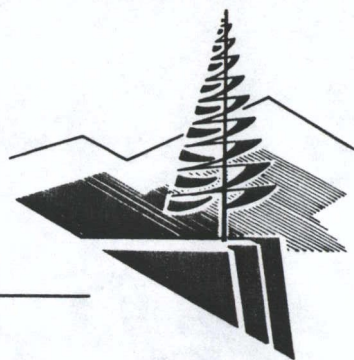
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February 18, 1993

Mr. Jimmy D. Ray
730 E. Washington, #112
Sequim, WA 98282

Attn: Jimmy D. Ray and Larry Tozer

Re: Proposal to drill three 8" air rotary holes and setting blank and 10-slot 4" piping vapor extraction wells.

Dear Jimmy and Larry:

In response to your request, Blue Ridge Associates, Inc. (Blue Ridge) is please to present a proposal for drilling and setting of three 4" wells. The wells will be sampled on five foot intervals and immediately evaluated with our photo-ionization detector (PID). The bottom of the contaminated soils can be specifically defined by using the PID in the field, and money for drilling will not be wasted.

The three wells will be placed in the following locations:

- (1) Above tank #1's "Leak"
- (2) West of Birch Street between the Coulee House and Birch Street at a 245° azimuth from the leak.
- (3) West of Birch Street between the Coulee House and Birch Street at a 295° azimuth from the leak.

Please refer to the attached diagram for the placement of the three wells.

Blank and 16-slot PVC piping will be used for the construction of the wells.

Cost of setting the three wells:

The estimated cost for the setting of the three vapor extraction wells is as follows:

1)	Drilling 8" air rotary holes \$175/hour (Includes decontamination and etcetera costs)	\$ 2,800.00
2)	Mobilization	350.00
3)	2 days per diem \$55/man x 2	220.00

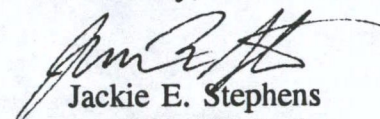
4)	Sand \$13/bag x 35	455.00
5)	Bentonite \$9/bag x 7	63.00
6)	27 soil samples x \$120 (9 samples per hole x 3 holes) (Maximum # of samples, and may be less)	3,240.00
7)	2 days field geologist/hydrogeologist	1,040.00
8)	2 days office geologist/hydrogeologist	1,040.00
9)	Miscellaneous supplies	<u>300.00</u>
		\$9,508.00

Any work beyond what has been outlined above would have to be authorized by you as our client and could be provided by Blue Ridge Associates, Inc. at \$75/hour. Should that situation arise, Blue Ridge would be pleased to provide a new or extended agreement to work.

Blue Ridge agrees to perform the services under this agreement in accordance with the standard practices. Because of the potential for liability in connection with the performance of the services hereunder, Blue Ridge is unwilling to engage in said services without limiting its liability as set forth hereinafter. Blue Ridge's liability under this agreement, whether in contract or tort, is limited to the fee that will be earned for this initial investigation.

Please sign below to show your authorization of work as described within this proposal. As a convenience to you, we will accept a signed FAX copy to schedule your project (FAX # 509-456-5956). We look forward to receiving the signed original in our office via mail at your earliest convenience.

Sincerely,


Jackie E. Stephens
President/Geologist

JES/mk
encl. as noted above

I agree with the attached work proposal and execute my signature below showing that this agreement authorizes Blue Ridge Associates, Inc. to commence with the above-mentioned well installation on the property herein described.

Jimmy D. Ray, Partner
Ray/Tozer Partnership

(date)

GASOLINE EXCAVATION BOUNDARY

NORTH

GEOLOGIC LAYERS
DIP TO THE
NORTHWEST

SUSPECTED LEAK POINT

RAMP

29 FEET

(CD-SWN)

(X) Well #1
B-SW

LARGE
BOULDER

(X)
B-NE

(CD-SWE)(X)

(X)
B-SW

(X)
B-SE

(CD-SWS)

29 FEET

23'

4'

COULEE
EXXON
MINI-MAX.
BUILDING

WATER SHUTOFF

26 FEET

15'

SEWER
LINES

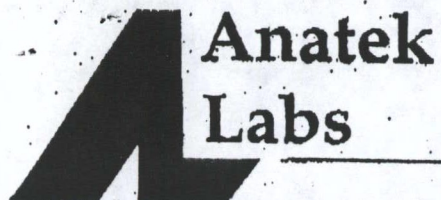
(X) Well #3

(X) Well #2

BIRCH ST.

COULEE
HOUSE

Figure 4: Sample locations



1917 S. Main Moscow, ID 83843

(208) 883-BTEX (2839)

FAX: (208) 882-9246

November 13, 1992

Blue Ridge Associates, Inc.

N. 9 Post, Suite # 250

Spokane, WA 99201

Attn: Iain Olness

Items: Results of analysis for samples received 11/13/92. Sample Log-in number is 0559.

Project: Grand Coulee

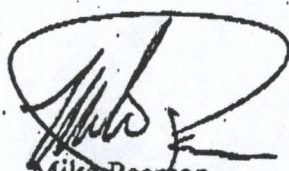
Date Sampled: 11/12/92

Report # 92-1113d-BRA

BTEX, TPHG all by GC modified for soils

All results based on dry weight basis. mg/Kg = ppm, mg/L = ppm

Sample Name	Matrix Analysis Date	Analyte	Concentration
IAO-GC-256	Water 11/13/92	Gasoline	< 10 mg/L
		Benzene	< 0.001 mg/L
		Toluene	< 0.005 mg/L
		Ethylbenzene	< 0.005 mg/L
		Xylenes (total)	< 0.015 mg/L
IAO-GC-206	Water 11/13/92	Gasoline	< 10 mg/L
		Benzene	< 0.001 mg/L
		Toluene	< 0.005 mg/L
		Ethylbenzene	< 0.005 mg/L
		Xylenes (total)	< 0.015 mg/L
IAO-GC-400	Water 11/13/92	Gasoline	< 10 mg/L
		Benzene	< 0.001 mg/L
		Toluene	< 0.005 mg/L
		Ethylbenzene	< 0.005 mg/L
		Xylenes (total)	< 0.015 mg/L



Mike Pearson
Laboratory Director



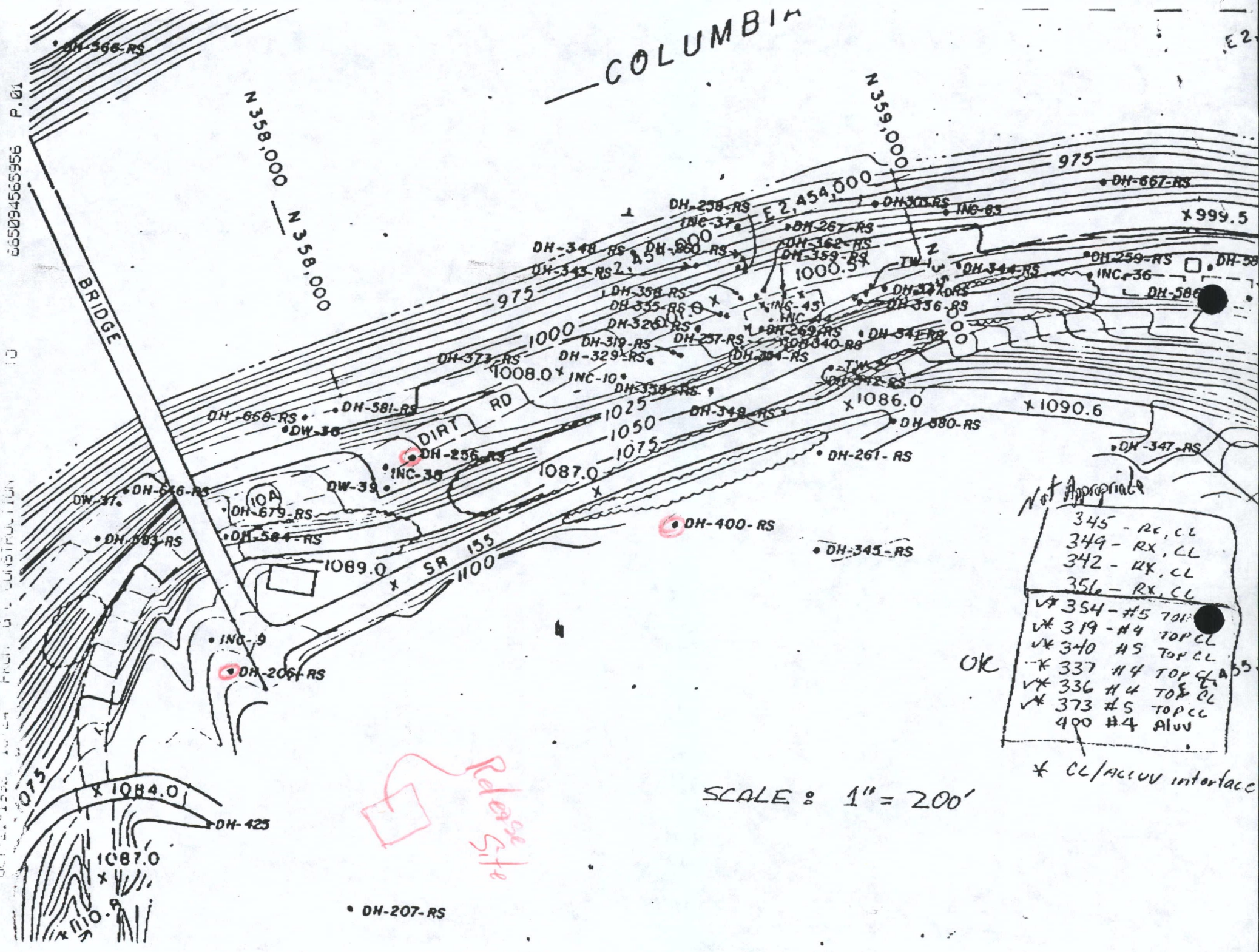
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UNCLASSIFIED AND FOR OFFICIAL USE ONLY

COLUMBIA

E2



Not Appropriate

- 345 - RC, CL
- 349 - RX, CL
- 342 - RX, CL
- 356 - RX, CL

OK

- ✓ 354 - #5 TOP
- ✓ 319 - #4 TOP CL
- ✓ 340 - #5 TOP CL
- ✓ 337 - #4 TOP CL
- ✓ 336 - #4 TOP CL
- ✓ 373 - #5 TOP CL
- 400 - #4 ALUV

* CL/ALUV interface

SCALE : 1" = 200'

DH-207-RS